

FIGURE 1a

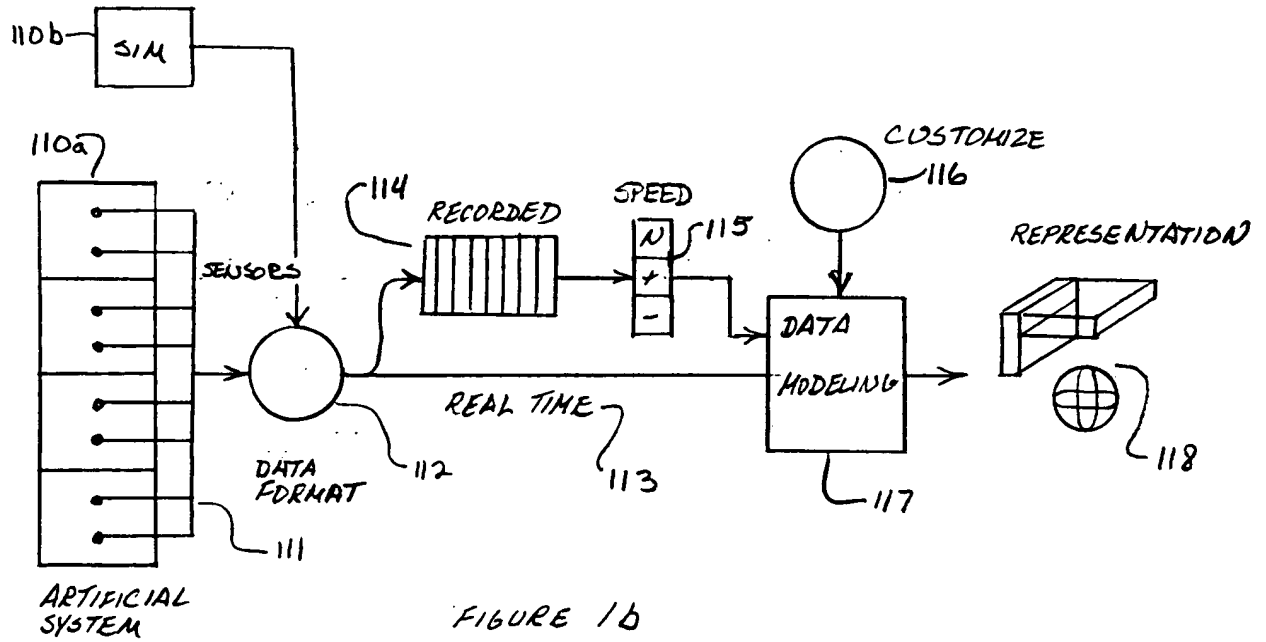


FIGURE 1b

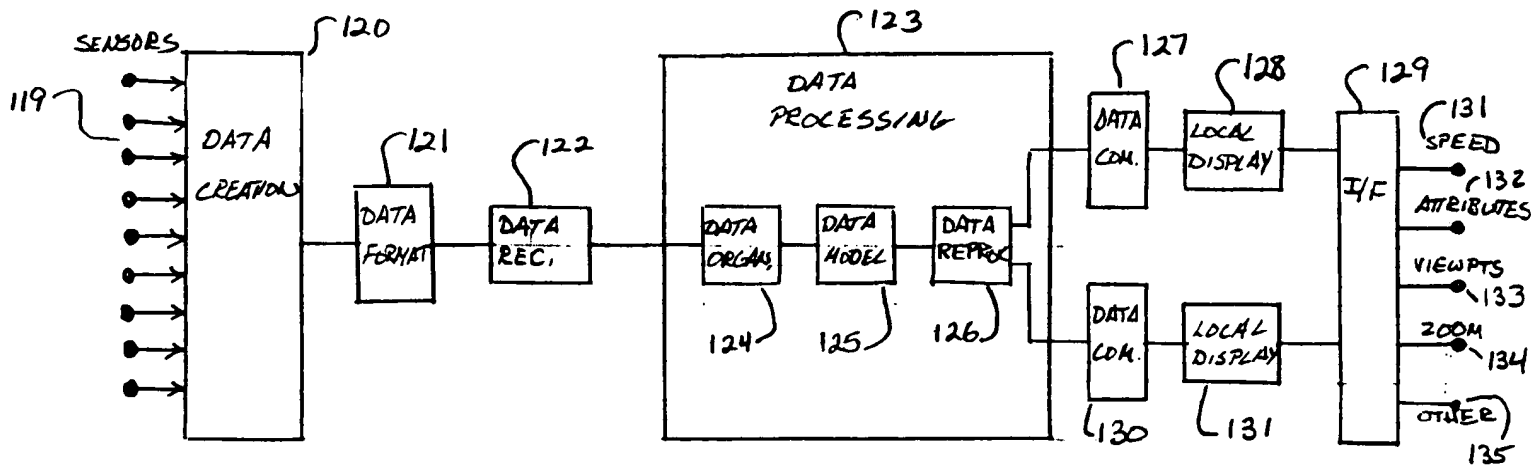


FIGURE 1c

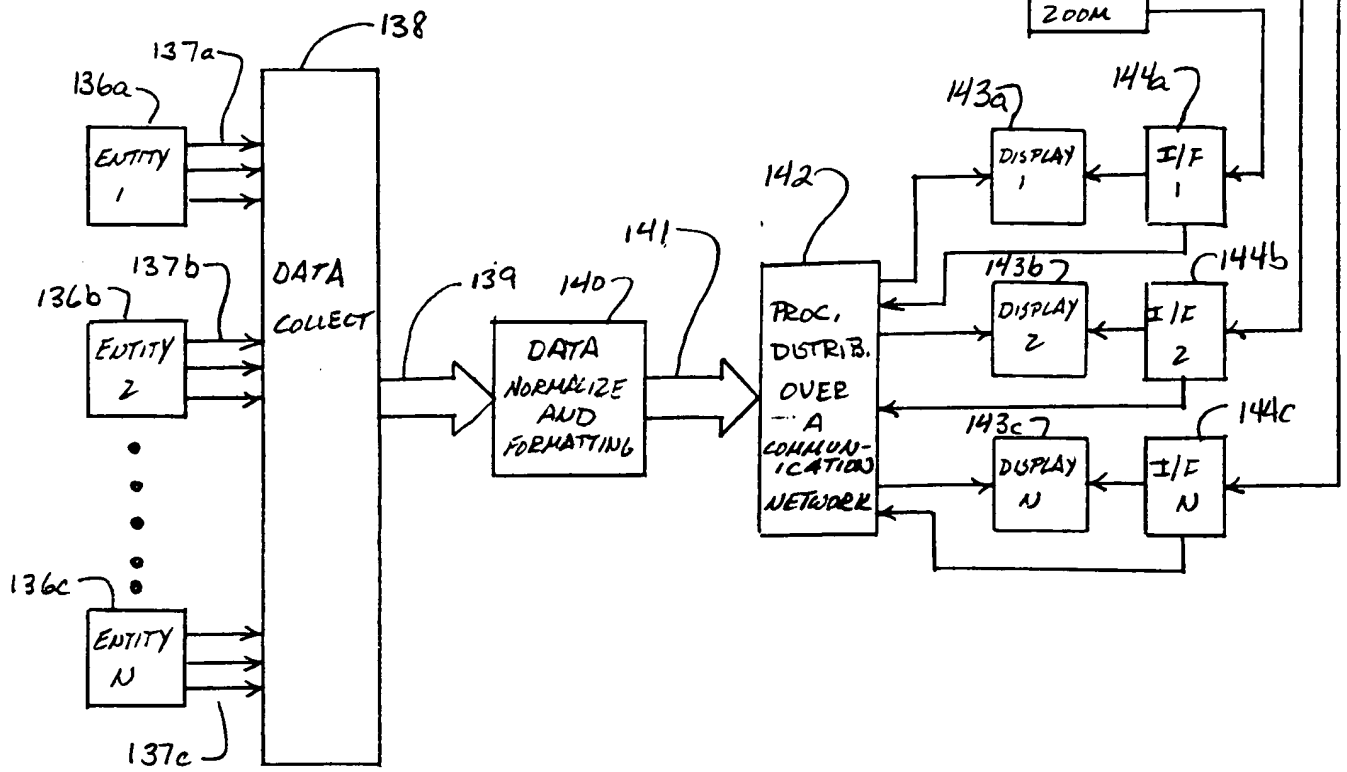


FIGURE 1d

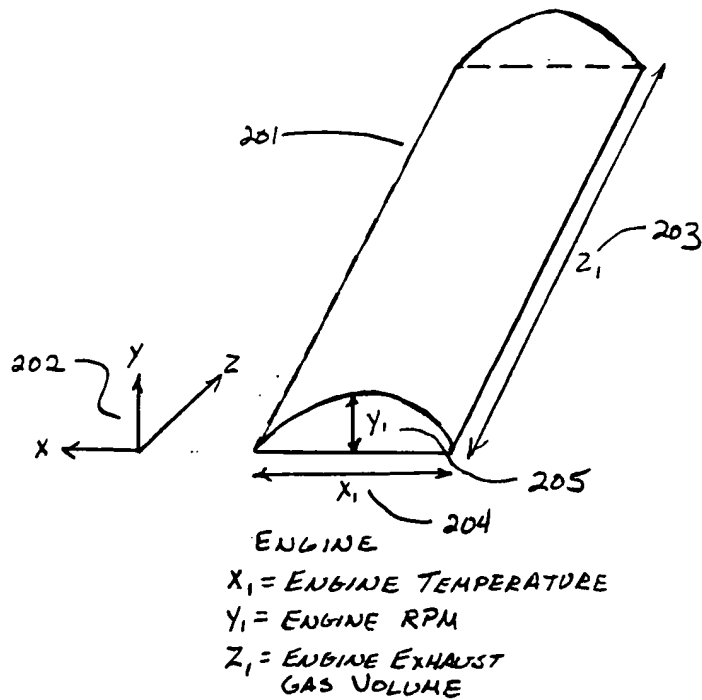
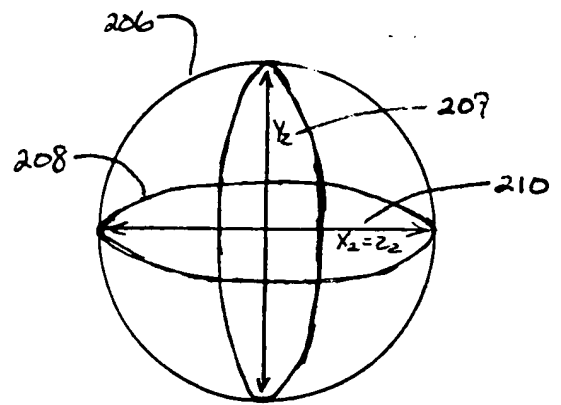


FIGURE 2a



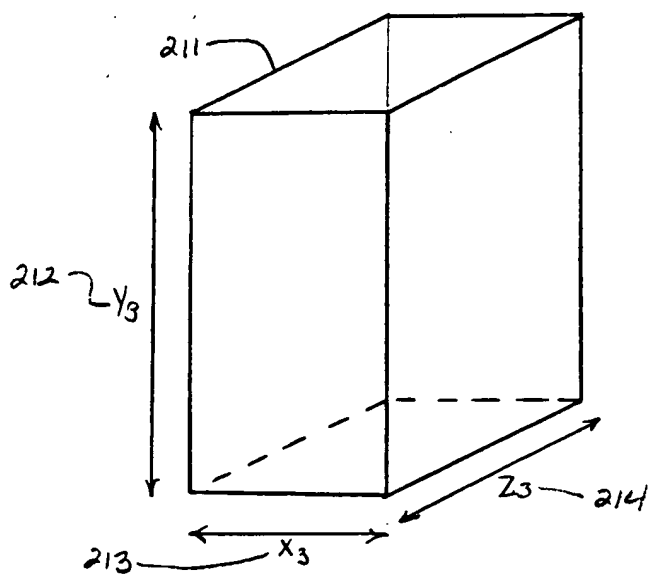
CARDIAC SYSTEM FUNCTION

$x_2 = z_2$ = HEART RATE / SECOND

y_2 = STROKE VOLUME

SPHERICAL VOLUME = CARDIAC OUTPUT

FIGURE 2b



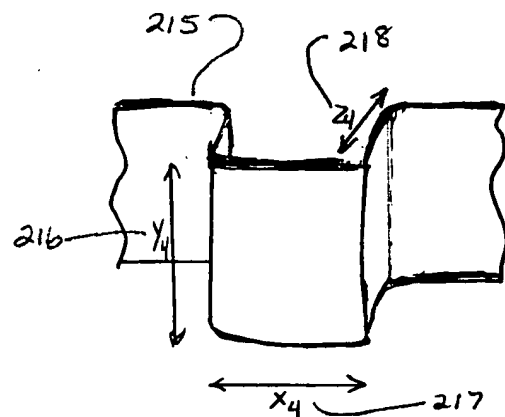
SALES DEPARTMENT OPERATION

x_3 = AVE TIME / CONTRACT

y_3 = # OF CONTRACTS

z_3 = AVE REVENUE / CONTRACT

FIGURE 2c



RESPIRATORY FUNCTION

x_4 = RESPIRATORY

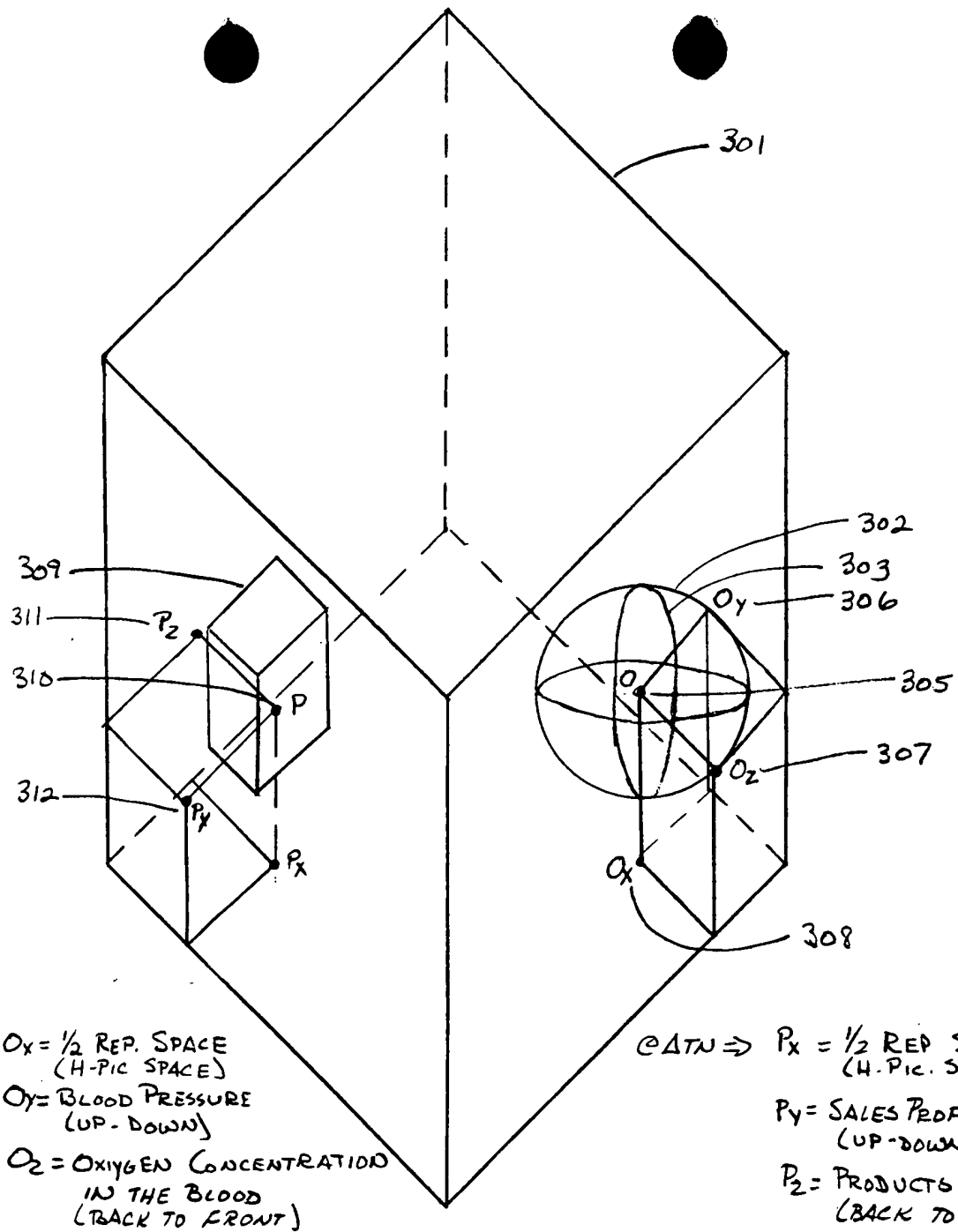
y_4 = FCN of x_4 and RESP. VOLUME

z_4 = +/- INHALATION / EXHALATION

SLAB VOLUME = RESPIRATORY VOLUME

FIGURE 2d

09457068-120799



@ΔTN ⇒ O_x = 1/2 REP. SPACE
(H-PIC SPACE)
O_y = BLOOD PRESSURE
(UP-DOWN)
O_z = OXYGEN CONCENTRATION
IN THE BLOOD
(BACK TO FRONT)

@ΔTN ⇒ P_x = 1/2 REP SPACE
(H-PIC. SPACE)
P_y = SALES PROFIT
(UP-DOWN)
P_z = PRODUCTS IN STOCK
(BACK TO FRONT)

FIGURE 3

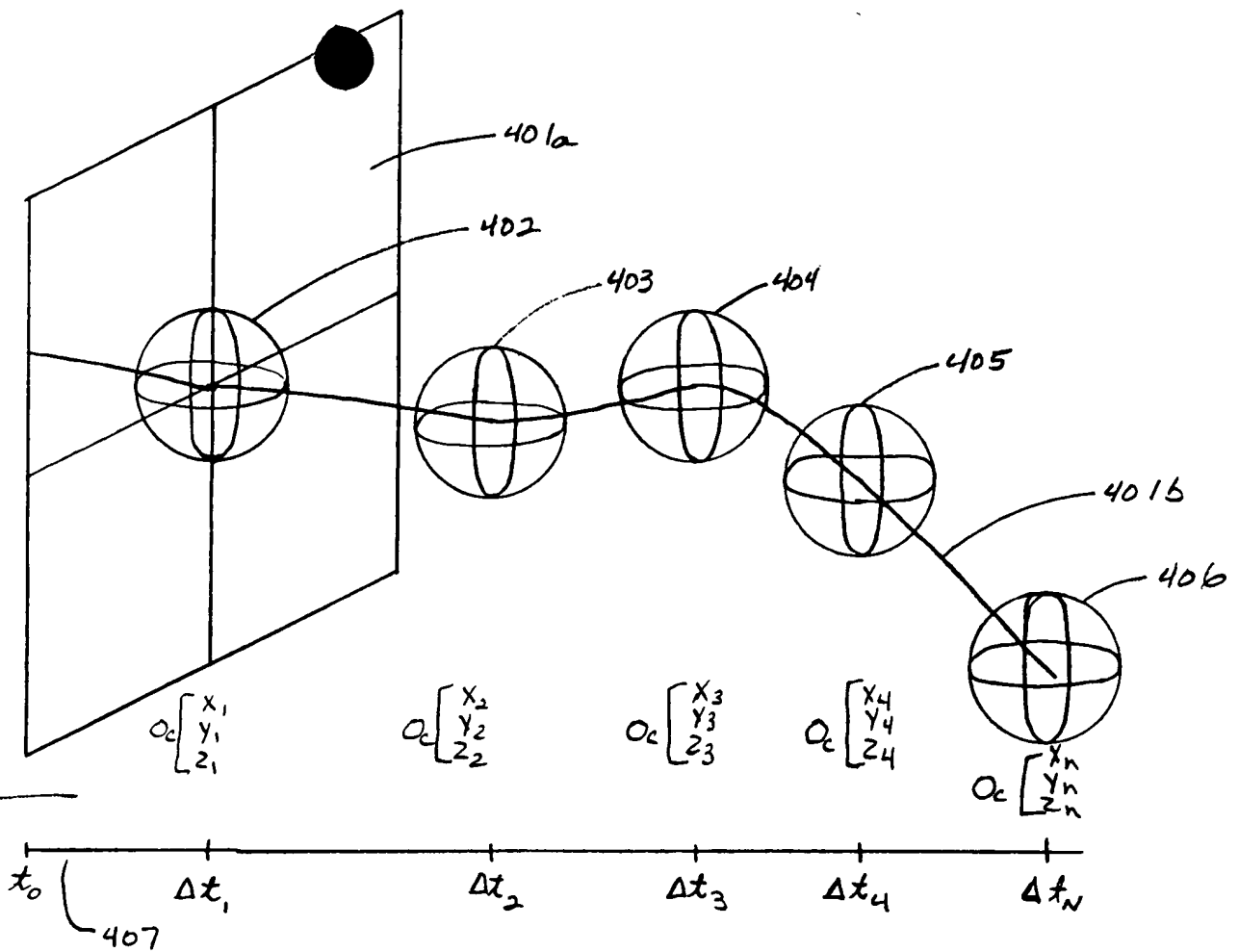


FIGURE 4a

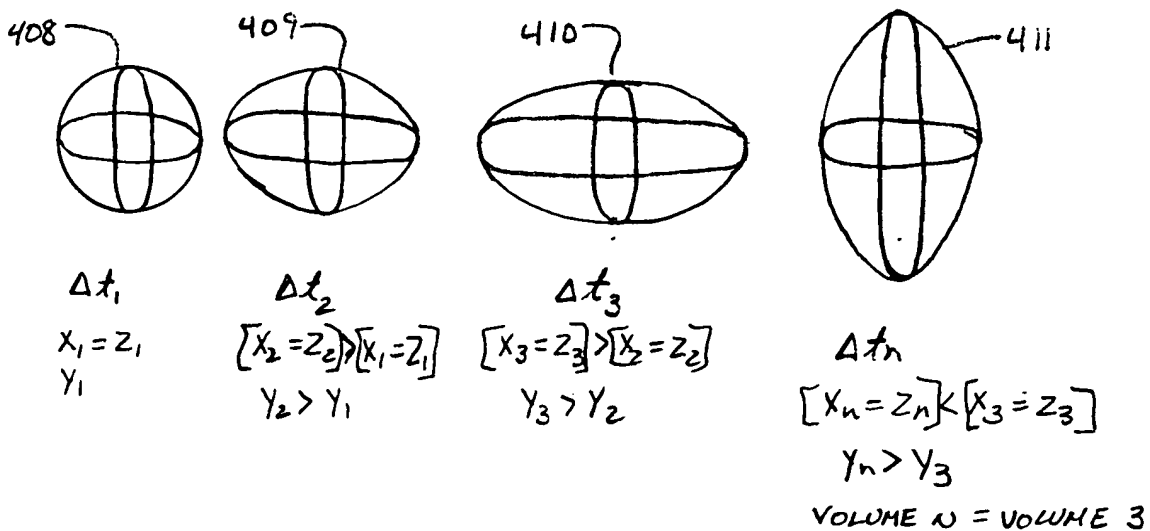


FIGURE 4b

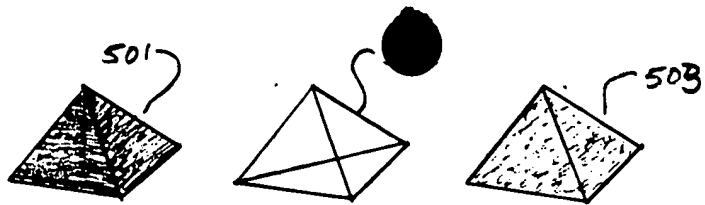


FIGURE 5a



FIGURE 5b

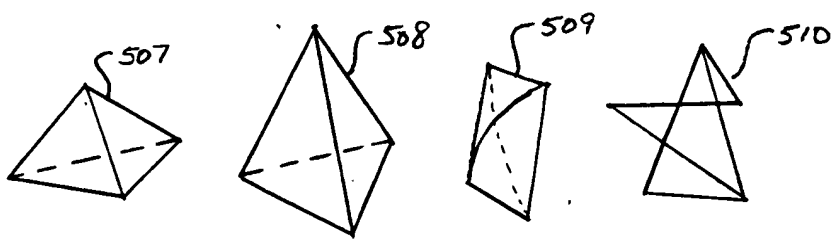


FIGURE 5c

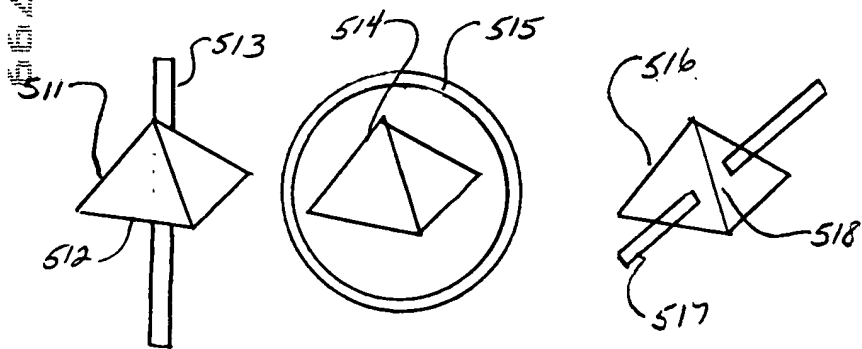


FIGURE 5d

501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518

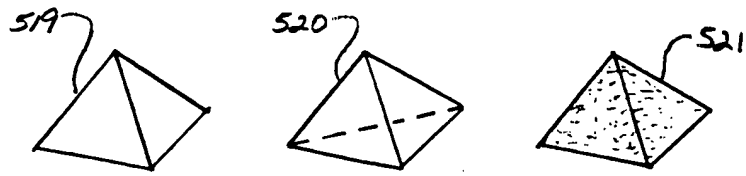


FIGURE 5e

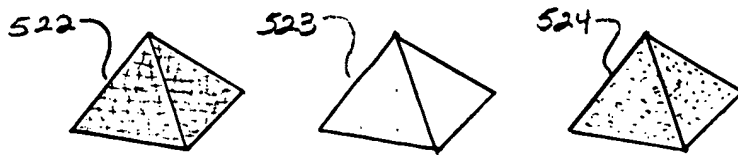


FIGURE 5f

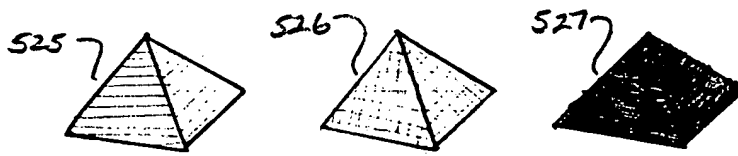


FIGURE 5g

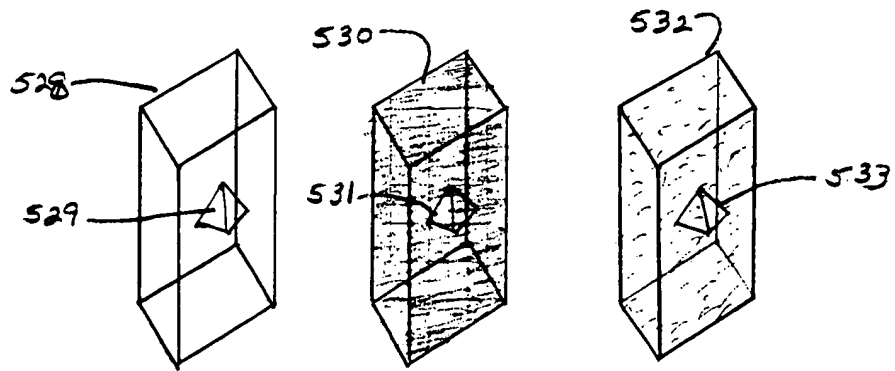
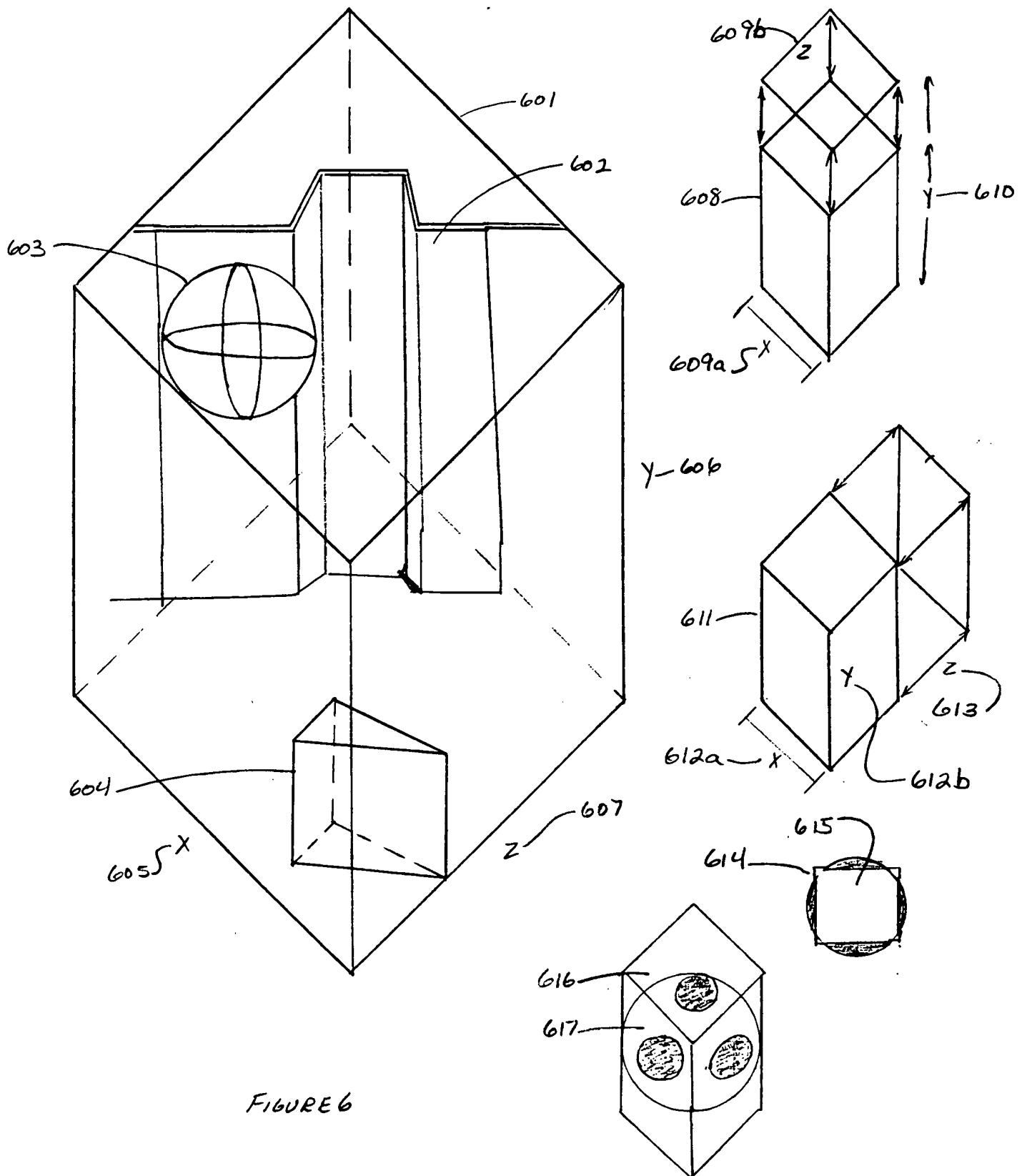


FIGURE 5h

6645068-120299

09457058-120799



66202T 89025460

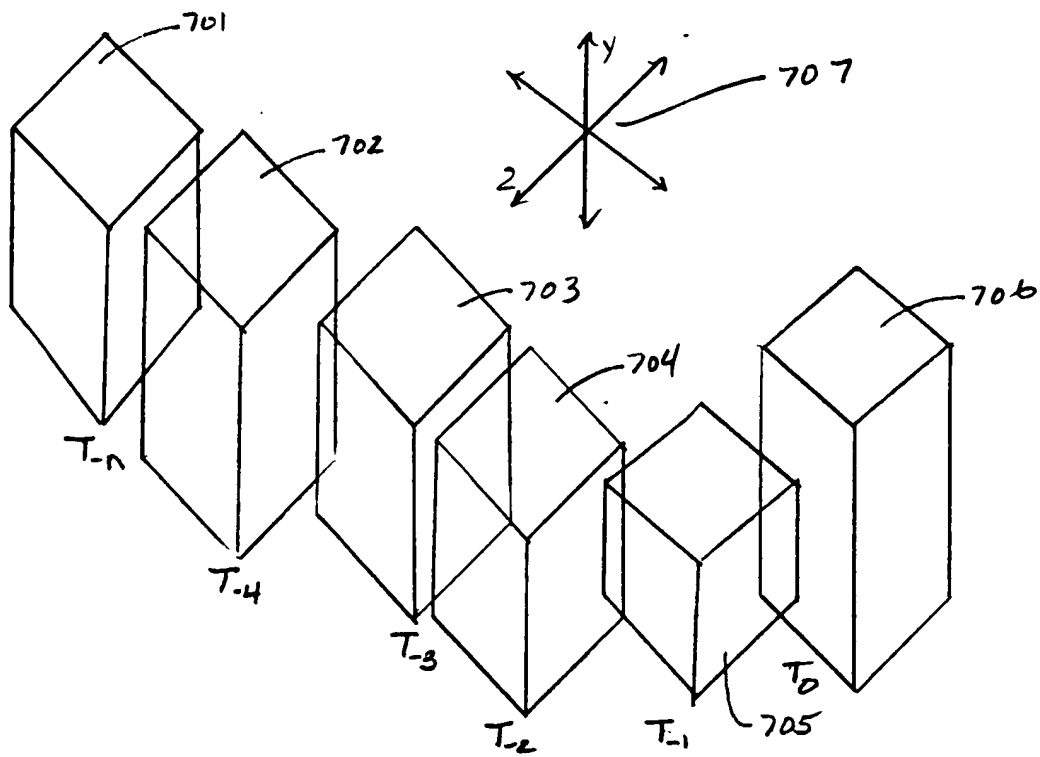


FIGURE 7

FIGURE 8a

FIGURE 86

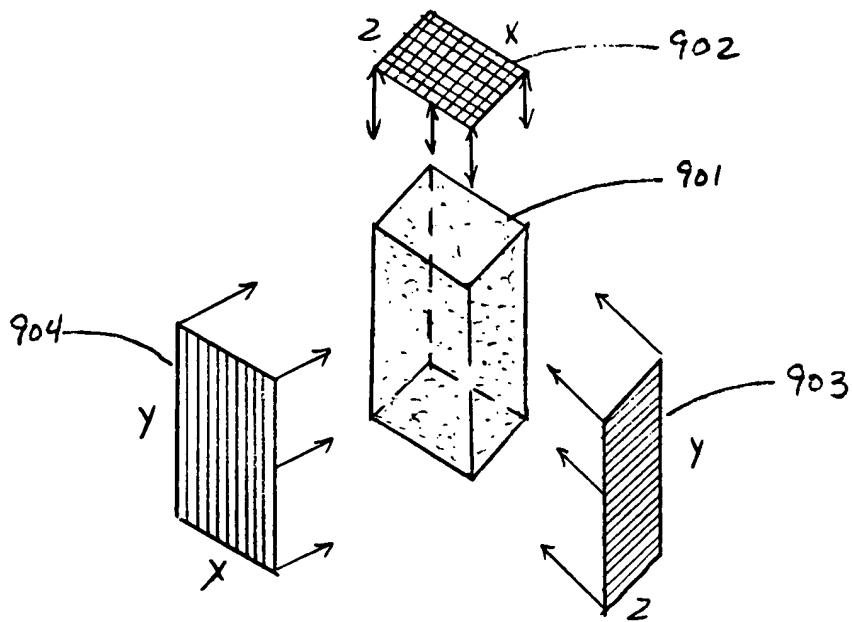


FIGURE 9a

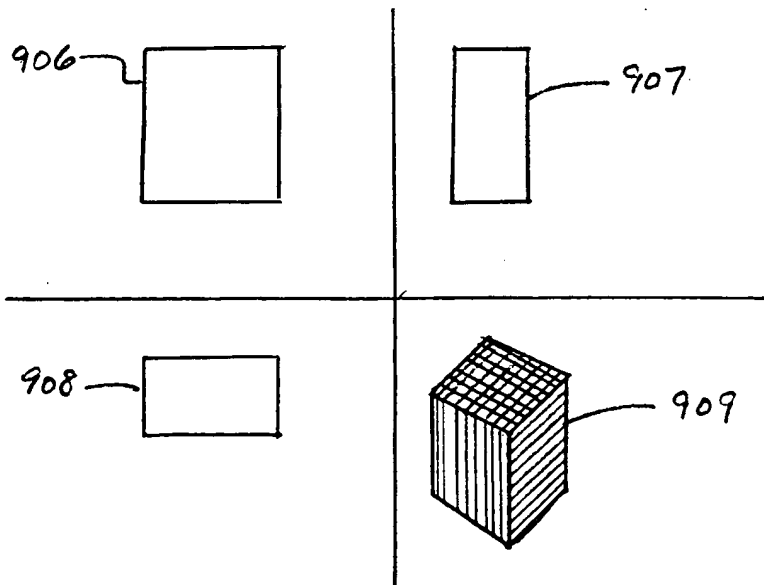


FIGURE 9b

66402T-89025460

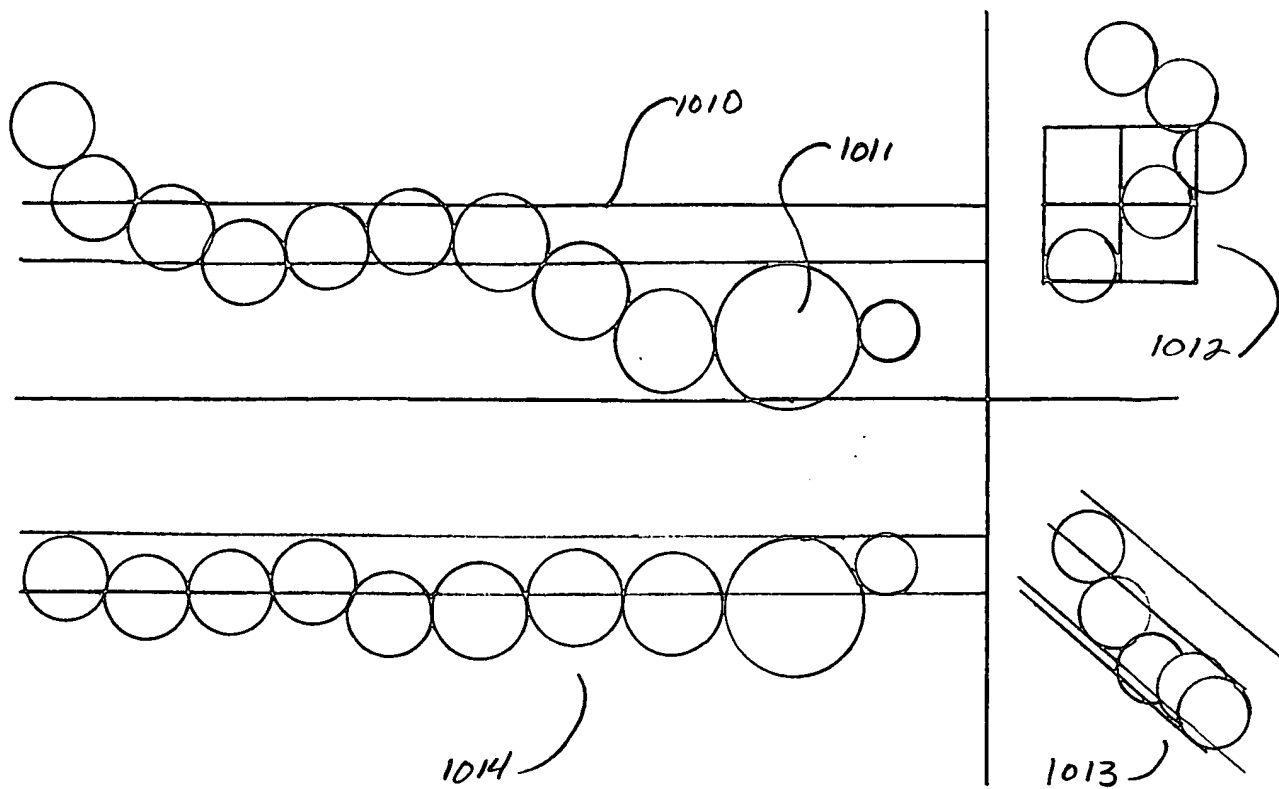


FIGURE 10

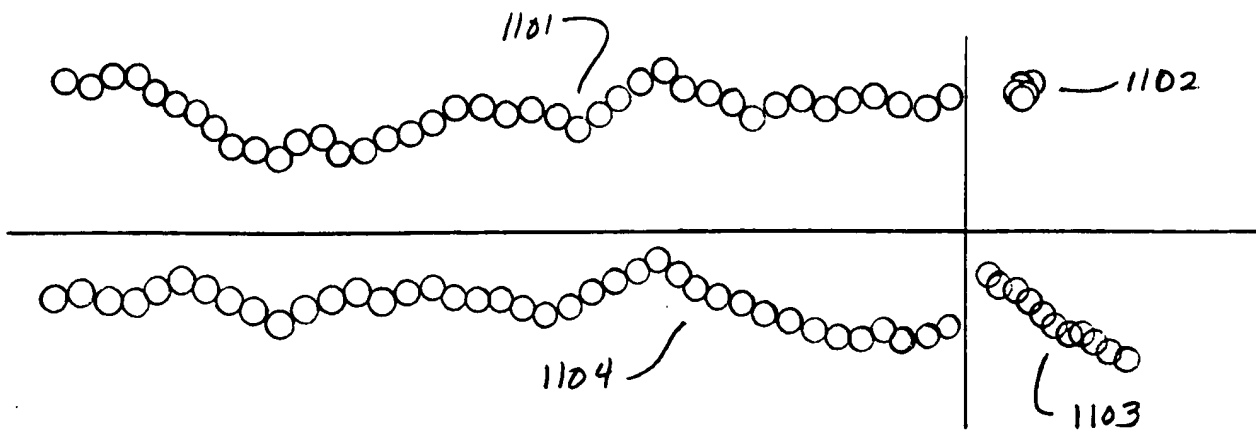


FIGURE 11a

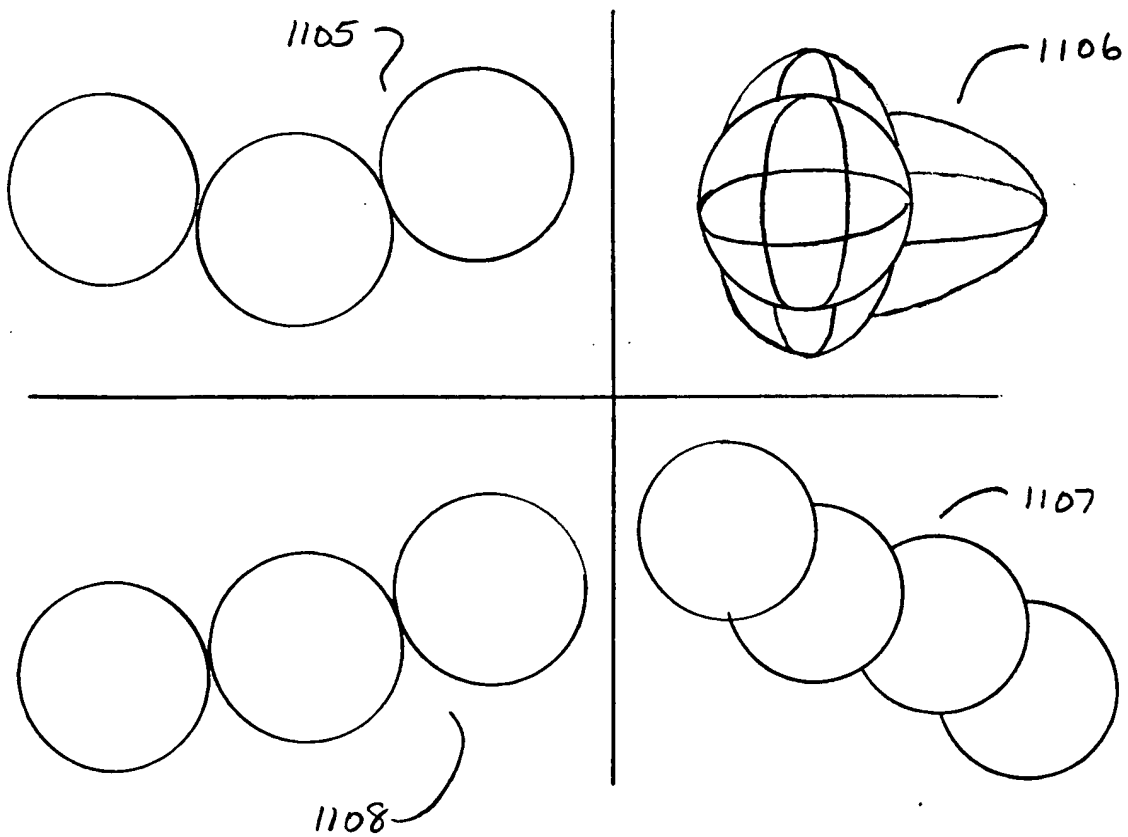
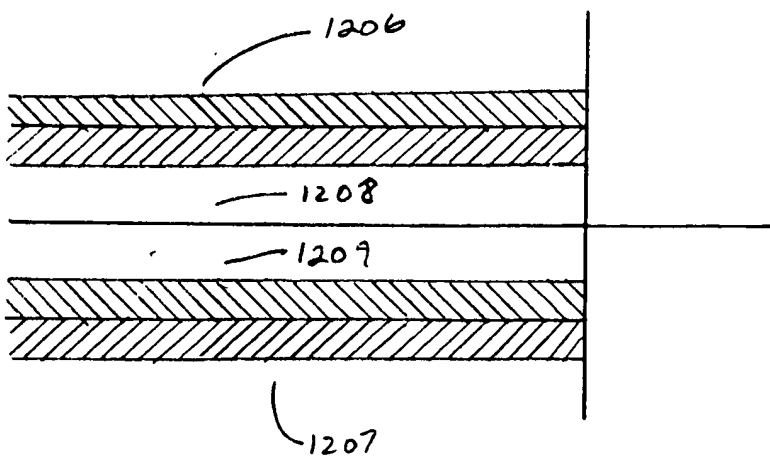
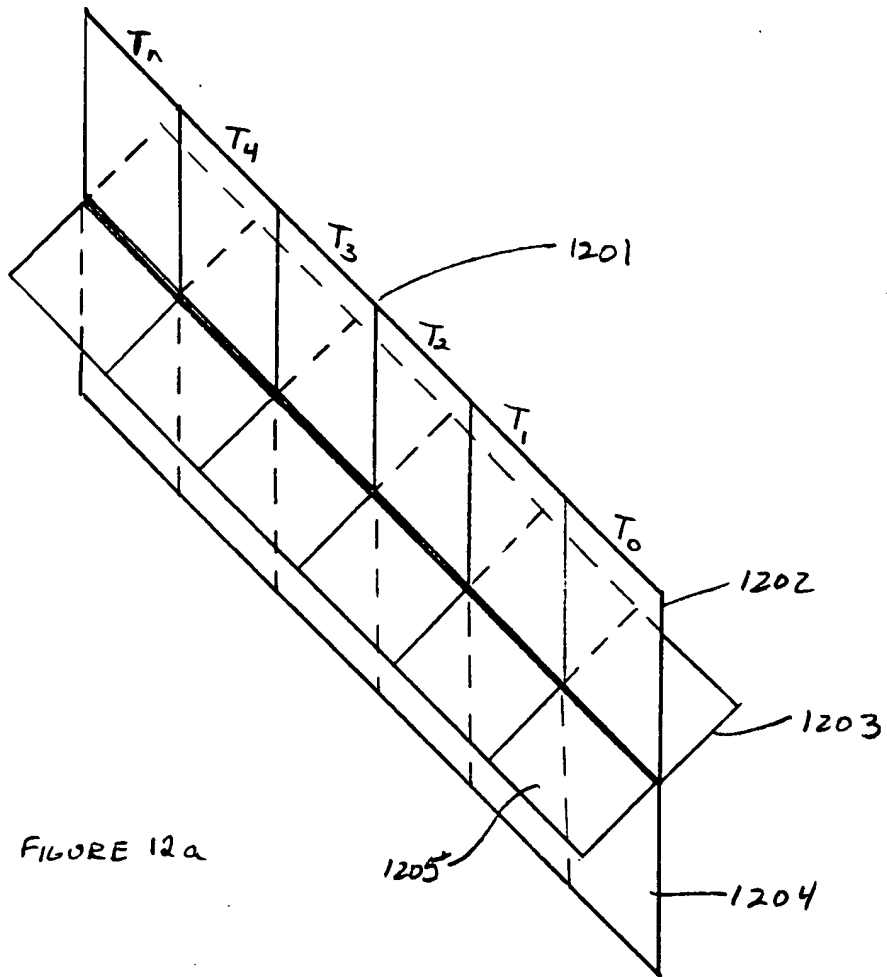


FIGURE 11b

09457058-120799



INTERFACE MODE I
(e.g. MEDICINE)

GIVEN: - CRITICAL FUNCTIONS

(UNCHANGABLE)

- PHYSIOLOGIC DATA COLLECTED
- SYMBOLIC SYSTEM STANDARD
- REFERENTIAL FRAMEWORK
- IDEAL VALUES/ALARMS

(CHANGEABLE)

- PARTICULAR VALUES
- OBJECT ATTRIBUTES

1301

INTERFACE MODE II
(e.g. CORPORATE DASHBOARD)

GIVEN: - DEFAULT / GENERIC L-SPACE/H-SPACE

USER
DETERMINES

- CRITICAL FUNCTION
- VITAL SIGNS TO BE COLLECTED
- SYMBOLIC SYSTEM TO BE USED
- IDEAL VALUES/ALARMS
- OBJECTS/ATTRIBUTES SPACE

1302

COMMON INTERFACE FEATURES

- L-SPACE
- H-SPACE
- ZOOM/SPEED
- VIEWPOINTS

FIGURE 13

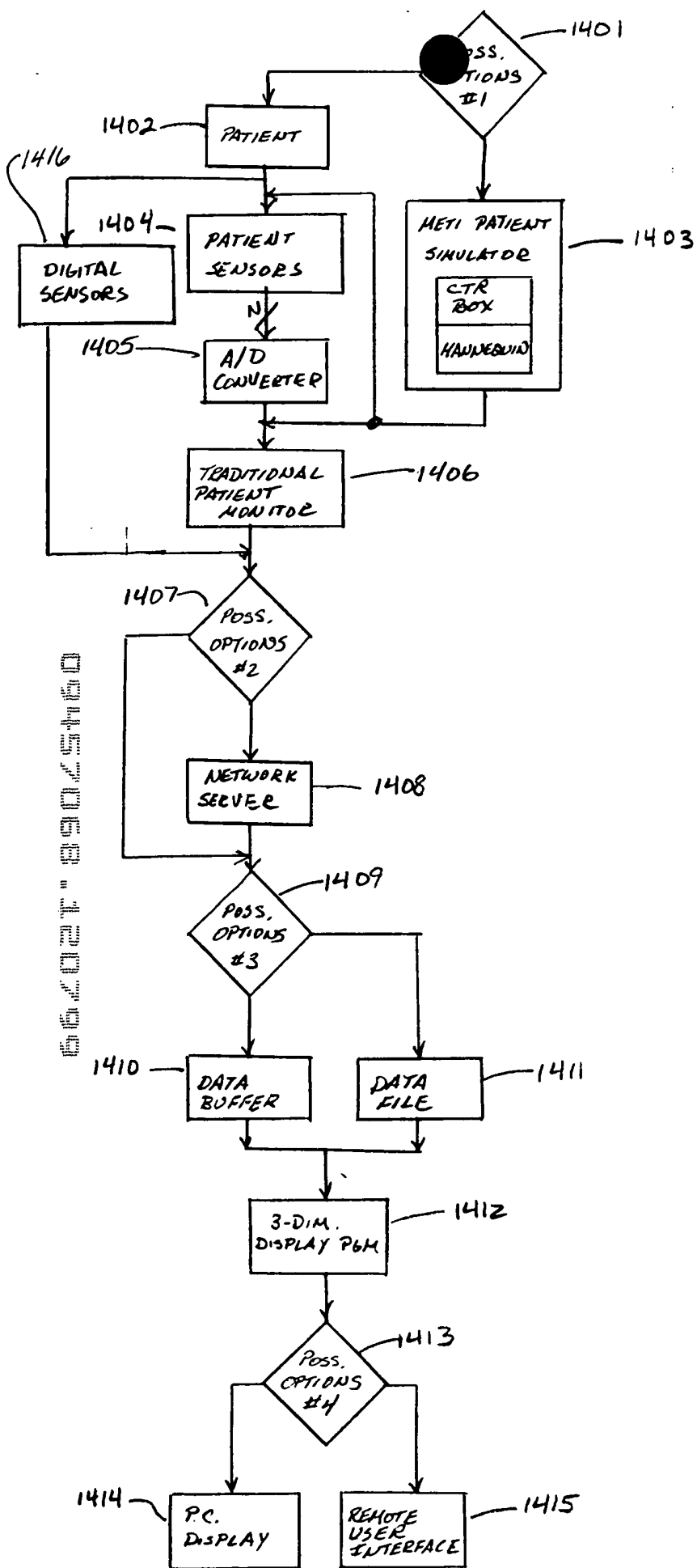


FIGURE 14

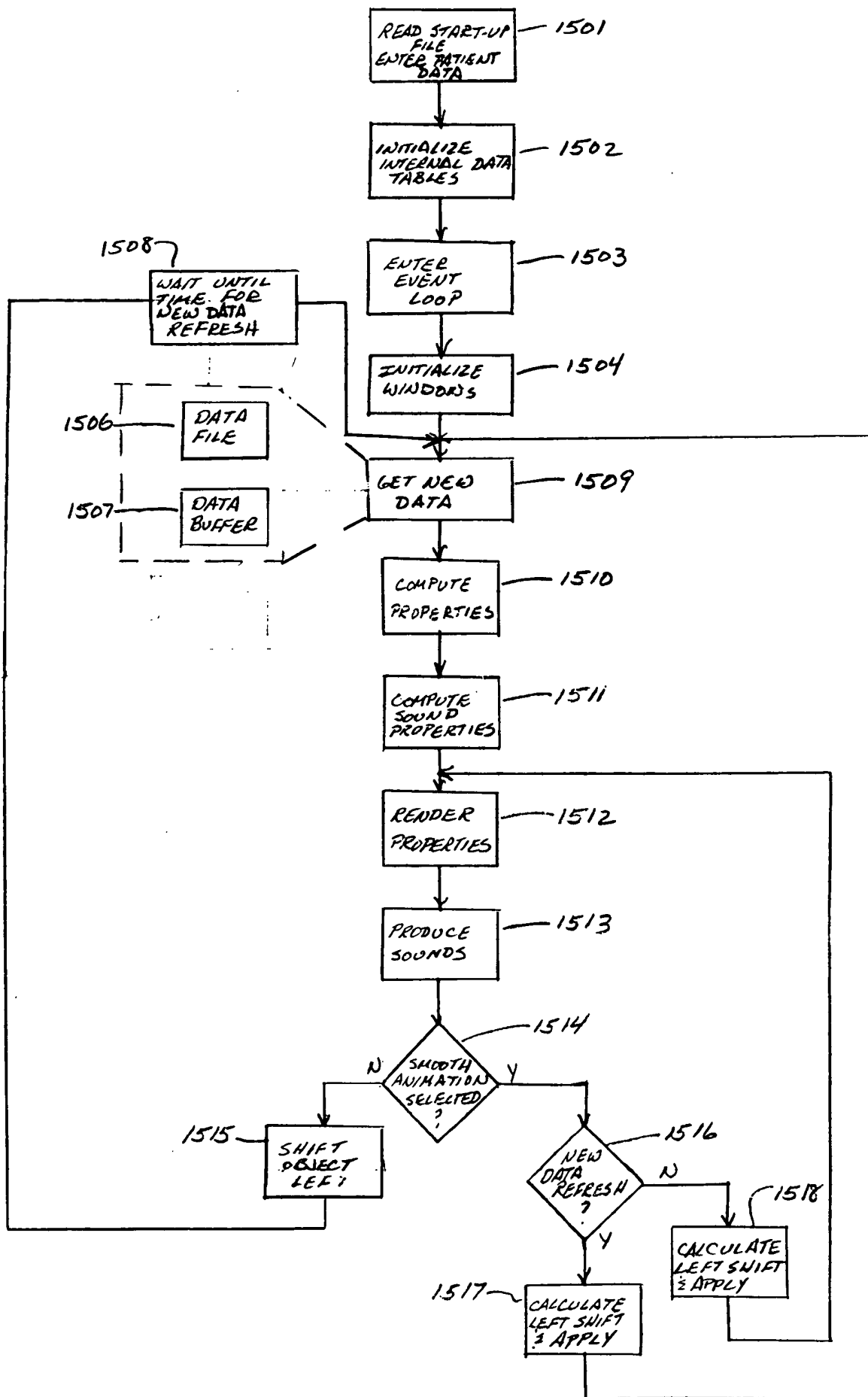


FIGURE 15

09457068-120799

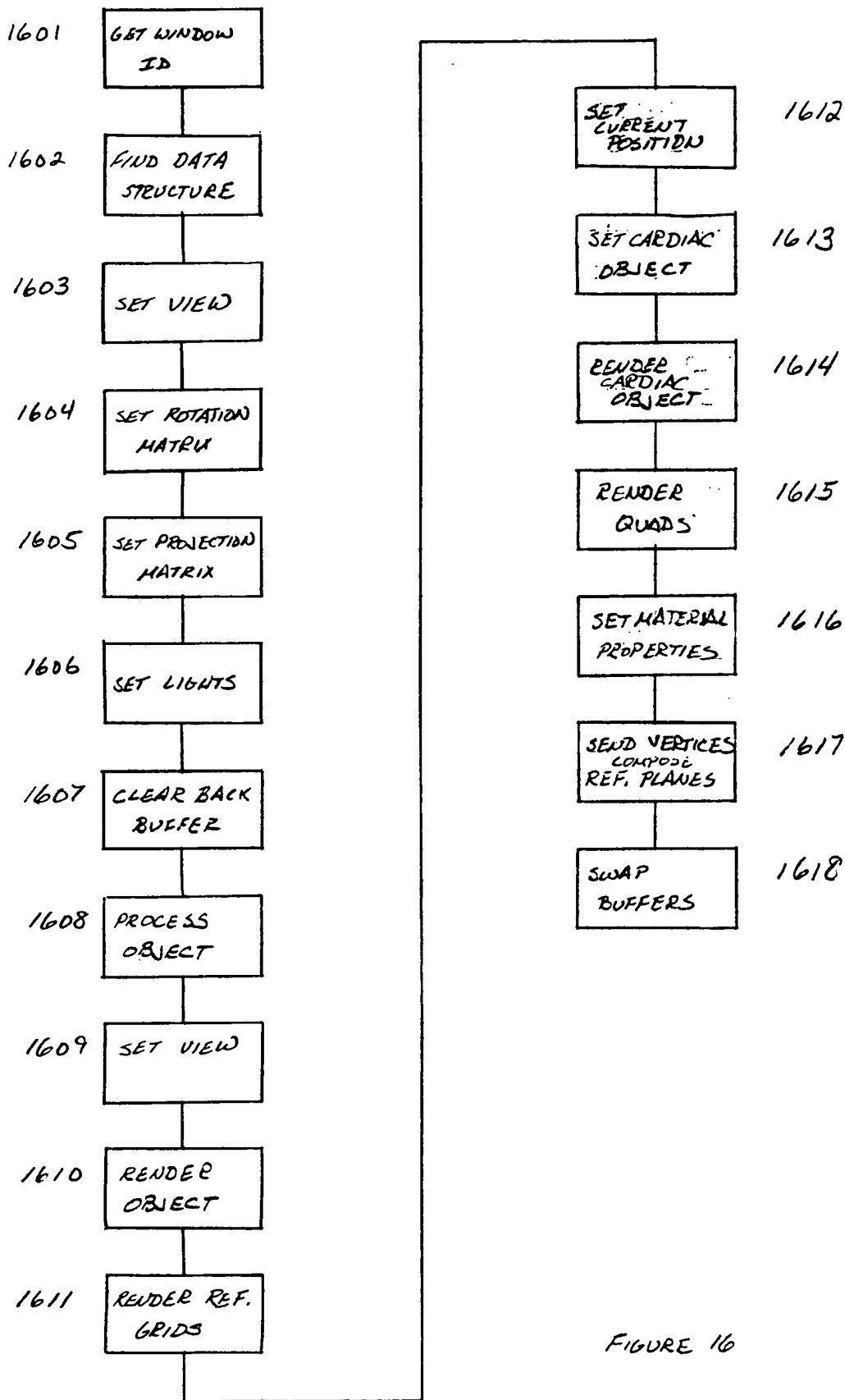
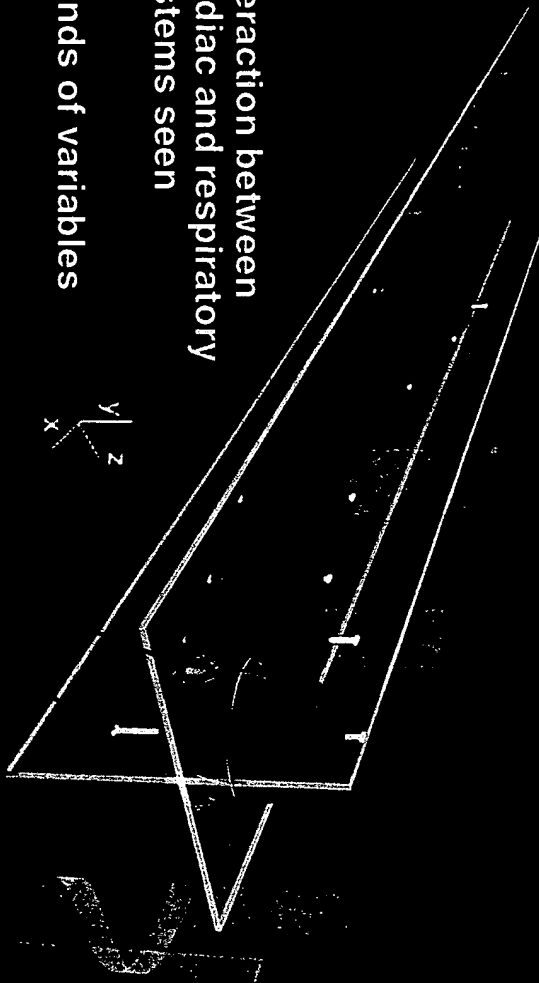


FIGURE 16

664021-8902545D

Perspective 3-D View

Interaction between
cardiac and respiratory
systems seen
Trends of variables



2207

2200

2204

2205

2201

2203

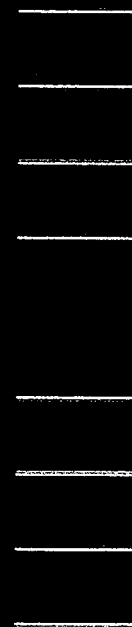
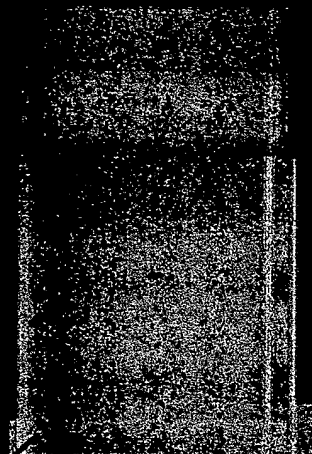
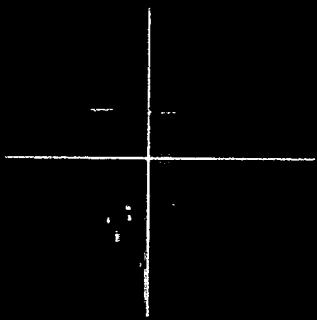
2202

2206

FIGURE 22

Side View

Deviations from ideal
are easily seen



$$\frac{y}{x} \frac{x}{z}$$

Percentage of gases in
lungs can be seen

FIGURE 21

664021 89045460

2000

2003

Top View

exhalation

inhalation

2001

2002

X = Time

Z = SaO₂ Content

White portion shows upper and lower values

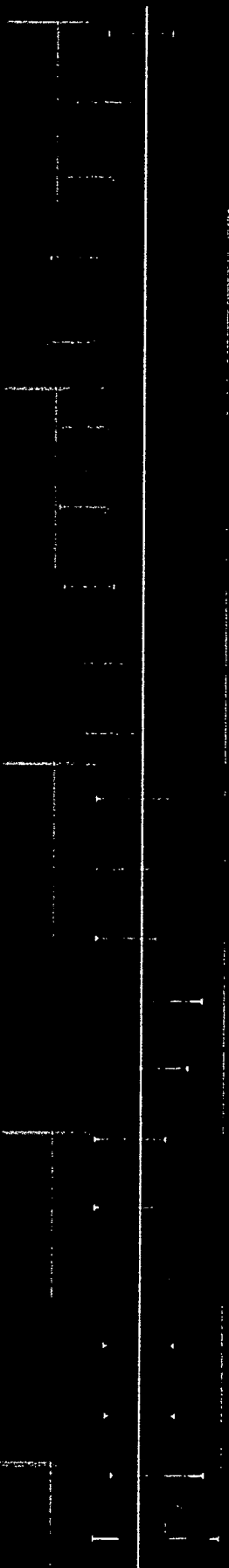
Respiratory rate seen as wave-form

$$\frac{z}{y} \bigg| \frac{x}{x}$$

Figure 20

Front View

1900



X = Time

Y = Mean Blood Pressure

Grid Lines show upper and lower values

y/z
x

Background shows levels of
carbon dioxide and oxygen
during inhalation and exhalation

1901

FIGURE 19

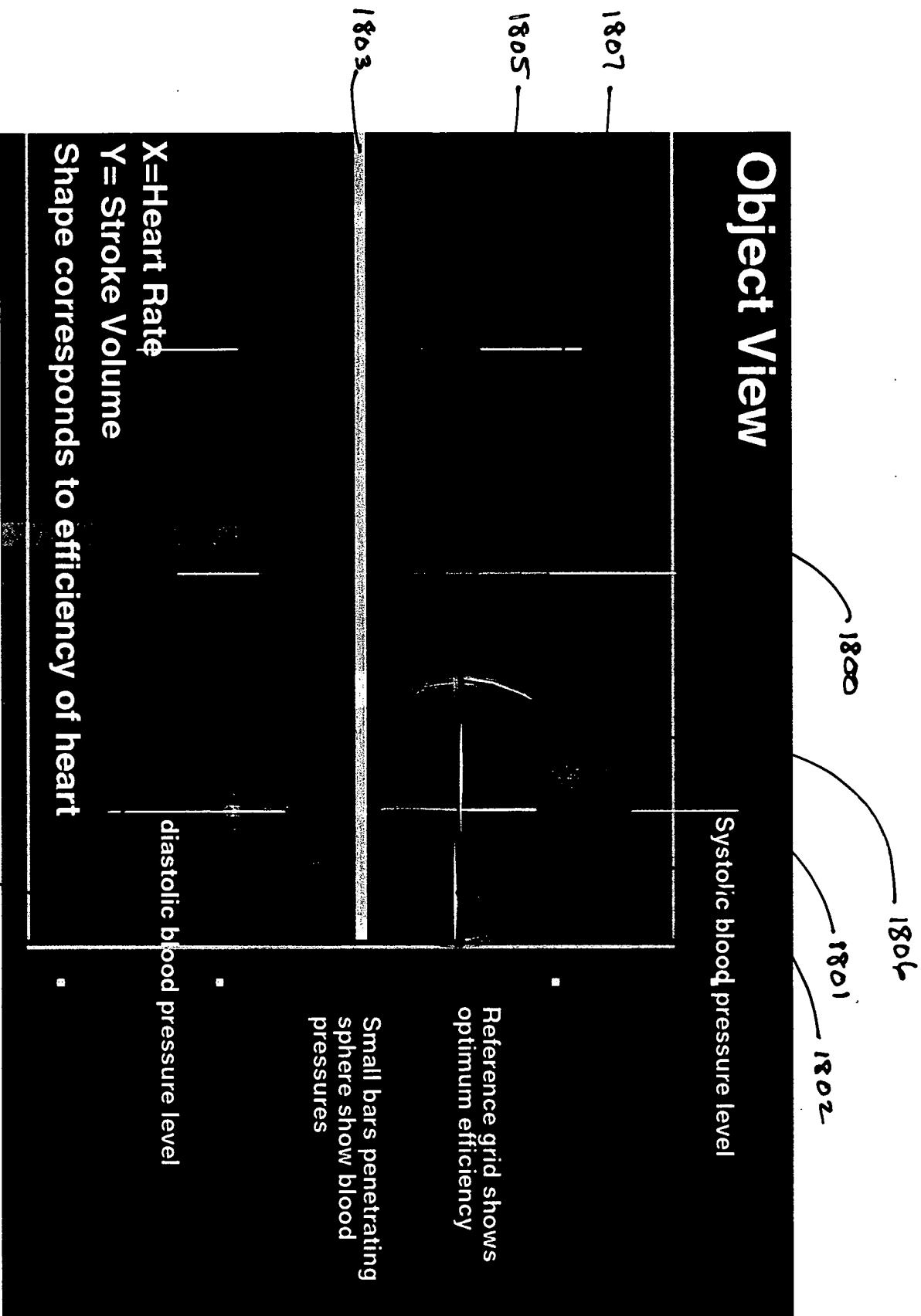


Figure 18

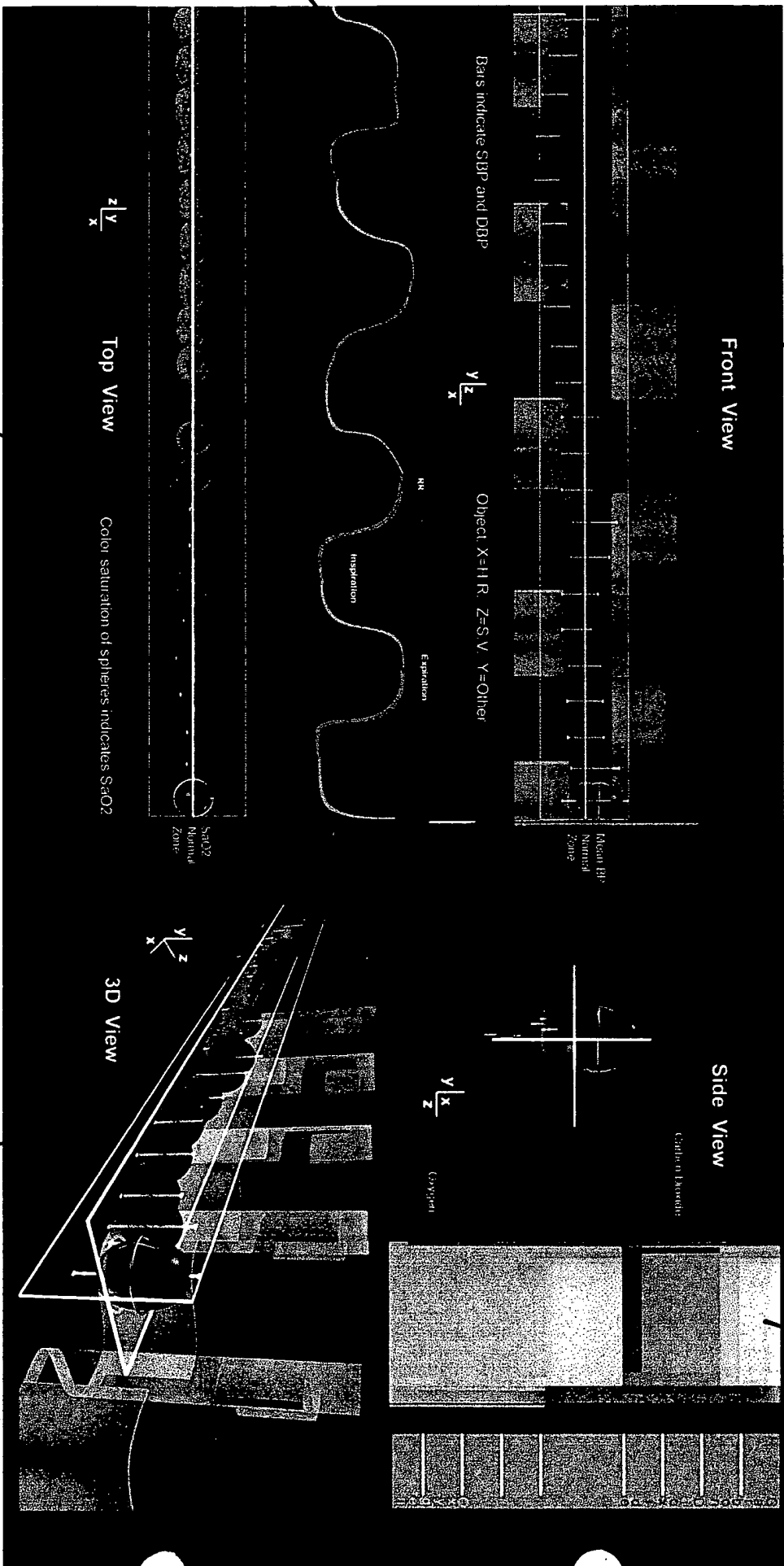


FIGURE 17